

BEST AVAILABLE COPY**PATENT ABSTRACTS OF JAPAN**(11)Publication number : **56-028474**(43)Date of publication of application : **20.03.1981**

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(21)Application number : **54-103898** (71)Applicant : **JAPAN STORAGE BATTERY CO LTD**
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(54) MANUFACTURE OF PASTE TYPE LEAD BATTERY**(57)Abstract:**

PURPOSE: To raise the span of life of a paste type positive electrode plate by limiting the compaction degree of the electrode plate in state soaked in an electrolyte to a specific range.

CONSTITUTION: The compaction degree of a positive electrode plate during its assembly is controlled so as to limit the compaction degree of the electrode plate to $20 \sim 60 \text{ kg/dm}^2$ in a state soaked in an electrolyte of dilute sulfuric acid. For obtaining a lead battery whose electrode plates are of such an optimum compaction degree, the relationship between the compaction degree of the electrode plates under dry conditions and that in a state soaked with the electrolyte is predicted in advance. Thereafter, the electrode plates are physically pressed from the outside by using a flexible material for the battery jar. Alternatively, the electrode plates may be inserted with force into a battery jar which is hardly susceptible to deformation, thereby exerting a pressing force onto the elements by the battery jar per se.

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